

COMPANY INTRODUCTIONS

- VAREBERG ENGINEERING / BLUE ROCK SOLUTIONS
- CONTINENTAL RESOURCES
- C2RENEW / C2SENSOR
- APPAREO









PROJECT BACKGROUND

- Fugitive Emissions (Methane Leaks) on Well Production Sites
- Monitoring for Leaks
 - Federal Regulation 40 CFR Part 60, Subpart 0000a, Standard for Performance of Crude Oil and Natural Gas
 - Currently allows for
 - Manual handheld methane detectors
 - FLIR cameras

FOCUS PRODUCT

- Individual Sensors for Each "Point" of Fugitive Emission
- 100's of Points on Typical Well Site
- Concentrate on Largest Contributor of Fugitive Emissions
 - Storage Tank Thief Hatches
 - Open Hatches
 - Unlatched Hatches
 - Faulty Seals / Pressure Valves
 - Thief Hatches Contribute to Approximately 80% of all Leaks

TECHNICAL DETAILS

- Utilize Current Technology
- Communication Protocol Cellular / IoT
- Wireless, Battery Operated
- Overall Housing / Packaging Attached Directly to Thief Hatch Cover



PILOT PROJECT PROTOTYPE COMPLETE SUBMIT FOR ULLISTING PROJECT TIMELINE FINAL HARDWARE DEVELOPMENT COMPLETE FINAL SOFTWARE DEVELOPMENT COMPLETE PILOT PROJECT INSTALLATION COMPLETE FINAL REPORT | PROJECT RESULTS INITIAL PROTOTYPE COMPLETE ONGOING PILOT PROJECT END OF PILOT PROJECT LAUNCH PRODUCT 3 MONTHS 6 MONTHS 12 MONTHS 15 MONTHS **18 MONTHS** 21 MONTHS 24 MONTHS 27 MONTHS 30 MONTHS FEBRUARY 2022 MONTHS

OVERALL BUDGET

•	Engineering /	'Fabrication /	Software Devel	lopment	\$335,400
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• Pilot Project / Travel \$69,600

• Reporting / Documentation \$27,000

• UL Listing / Legal \$150,000

Total Cost \$582,000

Grant Request \$266,000

